

WHAT IS CLAIMED IS:

1. A playback apparatus for extracting a playback signal from a recording medium without performing tracking control, said playback apparatus comprising:

an adaptive equalizing circuit for performing equalization of said playback signal; and

detection means for determining an envelope value of said playback signal, wherein said adaptive equalizing circuit is controlled in accordance with an envelope value from said detection means.

2. A playback apparatus according to Claim 1, wherein said adaptive equalizing circuit comprises:

a plurality of unit delay means for delaying said playback signal in sequence;

a plurality of weighting means for performing weighting on each of the delay signals; and

addition means for adding together the weighted signals, and

wherein each of the weighting signals of said plurality of weighting means is changed in accordance with said playback signal, and when the envelope value of said playback signal is more than or equal to a predetermined value, the coefficients in said weighting means are changed.

3. A playback apparatus according to Claim 2, further comprising phase-locked loop means for forming a signal locked to an arbitrary phase of said playback signal, wherein when phase lock has been performed by said phase-locked loop means, the coefficients in said weighting means are changed.

4. An adaptive equalizing circuit for changing each weighting coefficient of a plurality of weighting means in accordance with an input signal, said adaptive equalizing circuit comprising:

a plurality of unit delay means for delaying the input signal in sequence;

the plurality of weighting means for performing weighting on each of the delay signals;

addition means for adding together the weighted signals; and

detection means for determining an envelope value of said input signal, wherein when the envelope value from said detection means is more than or equal to a predetermined value, the coefficients in said weighting means are changed.

5. An adaptive equalizing circuit according to Claim 4, further comprising phase-locked loop means for forming a

signal locked to an arbitrary phase of said input signal, wherein when phase lock has been performed by said phase-locked loop means, the coefficients in said weighting means are changed.

6. A playback method for extracting a playback signal from a recording medium without performing tracking control, said playback method comprising:

a detection step for determining an envelope value of said playback signal; and

a step for performing adaptive equalization on said playback signal in accordance with said envelope value.

7. A playback method according to Claim 6, wherein said step for performing adaptive equalization comprises the steps of:

delaying said playback signal in sequence by a plurality of unit delay means;

weighting the delayed delay signals by respective coefficients; and

adding together the weighted signals, and

wherein, when the envelope value of said playback signal is more than or equal to a predetermined value, said weighting step changes said weighting coefficients in accordance with said playback signal.

$$\begin{array}{l} \text{Slope} = \frac{\text{rise}}{\text{run}} = \frac{y_2 - y_1}{x_2 - x_1} \\ \text{Line 1: } \frac{y_2 - y_1}{x_2 - x_1} = \frac{2 - 1}{3 - 1} = \frac{1}{2} \\ \text{Line 2: } \frac{y_2 - y_1}{x_2 - x_1} = \frac{1 - 2}{2 - 3} = \frac{-1}{-1} = 1 \\ \text{Line 3: } \frac{y_2 - y_1}{x_2 - x_1} = \frac{2 - 1}{1 - 3} = \frac{1}{-2} = -\frac{1}{2} \end{array}$$